

## ARIZONA MINES.

## Annual Report of Geologist Blandy.

## What the Mines Have Done During the Year.

## The Output of the Several Counties in Detail—A Decrease From 1888—The Future Mine.

John F. Blandy, Territorial Geologist, submitted his report for the year 1888 to Governor Wolfley yesterday.

The document is very voluminous, going with great detail into the mineral resources of the Territory and being accompanied by maps of the several mining regions with detailed explanations.

Mr. Blandy reports that during the year he has visited the several mining districts in the territory, watching the progress of work and collecting the statistics of production as acquired by the act creating his office. What is most needed by the Territory at present is a careful illustration of its wealth in detail.

The report estimates the product of the Territory during the past year by counties as follows:

Mohave, gold, \$135,727.73; silver, \$508,954.24. Total, \$644,681.97.

Yavapai, gold, \$461,705.47; silver, \$162,761.57. Total, \$624,467.04.

Yuma, gold, \$85,295.00; silver, \$33,605.37. Total, \$118,900.37.

Maricopa, gold, \$43,510; silver, \$170,743.68. Total, \$214,253.68.

Pima, gold, \$63,584.21; silver, \$608,373.97. Total, \$671,958.18.

Pinal, gold, \$625.57; silver, \$186,745.26. Total, \$187,370.83.

Cochise, gold, \$57,955.40; silver, \$194,926.54. Total, \$252,881.94.

Graham, gold, \$1,256.10; silver, \$2,298.19. Total, \$3,554.29.

Gila, gold, \$1,000; silver, \$15,720.57. Total, \$16,720.57.

This is a total product for the Territory of gold \$850,650.48 and of silver \$1,713,555.71, making a grand total of \$2,564,206.19, which with \$241,407 in gold and \$263,864 in silver returned from the express office and smelters and not included in the first figures, makes the entire output: Gold, \$1,092,057.88; silver, \$1,977,419.71. Total, \$3,069,477.59.

This is as against a total bullion output of \$4,431,580 in 1888, divided amongst the counties as follows:

Mohave, \$100,800; Yavapai, \$416,127; Yuma, \$181,923; Maricopa, \$223,711; Pima, \$651,379; Pinal, \$88,740; Cochise, \$958,138; Graham, \$44,172; Gila, \$35,232; Apache, \$1,500.

The production of copper for the year has been 30,446,900 pounds.

The lead has been sent to various smelters throughout the country and there can of course be no accurate figures obtained as to its production.

The C. O. D., Copal, Prince George, Infallible, Night Hawk and Rip Van Winkle mines, in Mohave county, are recommended in the report as especially worthy of development.

They are well defined fissure veins in a granite syenite formation with every indication of permanency, and all carrying high grade silver ores.

But few changes are reported during the year from Yavapai county.

The Congress has been the largest producer during the year, the ore being a pure iron sulphuret carrying from seven to nine ounces per ton.

The output of Maricopa has been largely decreased, owing to the stoppage of work at the Vulture, nothing having been done there during the past year. The only other noted mine in the country is the Phoenix, near the head of Cave creek, where litigation prevented the running of the stamp mill for more than a few months during the year.

The opening of the Harqua Hala has been the leading mining event of the year in Yuma county, but the older properties have also yielded well.

The mines of the other counties the geologist was unable to visit, but he will probably submit a supplemental report upon them.

The product of the several mines in the three leading counties visited is given in detail as follows:

**PIMA.**

Gold. Silver. Total.

St. Patrick, 18,000 00 18,000 00

Harshaw, 86,211 16 86,211 16

Horn Silver, 940 00 940 00

Mammoth, 14,000 00 14,000 00

Owl Head, 25,885 65 25,885 65

Nogales, 138 50 28,431 00 28,569 50

Chilenden, 17,000 00 17,000 00

Tucson, 4,994 75 125,708 24 130,703 99

Panama, 52,846 00 102,292 50 155,138 50

Nonpareil, 142 08 1,438 75 1,580 83

Express Co., 1,417 88 4,211 50 5,629 38

Other sources, 67,642 78

Totals, 61,984 21 \$68,373 87 \$671,958 18

**YAVAPAI.**

Gold. Silver. Total.

Congress, 232,000 00 7,000 00 239,000 00

Hillside, 21,872 00 47,503 42 69,375 42

Cabocoin, 627 44 4,556 00 5,183 44

Indian, 3,500 00 3,500 00

Howard, 6,000 00 6,000 00

Middleton, 2,820 00 2,820 00

Old Reliable, 6,409 00 6,409 00

Scott Lassie, 188 00 188 00

Belle, 5,800 00 5,800 00

Boggs, 601 80 1,945 00 2,546 80

Amulet, 6,714 00 6,714 00

Gra Bell, 16,000 00 1,125 00 17,125 00

Tip Top Dist, 1,848 25 1,848 25

Prescott Samp, 11,794 80 45,214 65 57,009 45

Express Co., 34,721 00 2,545 00 37,266 00

Other sources, 16,720 00 3,902 57 20,622 57

Totals, 147,705 47 \$162,761 57 \$624,467 04

**MOHAVE.**

Gold. Silver. Total.

Old Timer, 292 26 436 53 728 79

Silver King, 6,662 41 4,262 44 10,924 85

Rustler, 1,218 34 1,570 52 2,788 86

Infallible, 2,254 00 940 00 3,194 00

Tuckadoe, 386 79 3,300 40 3,687 19

Flora, 29,000 00 30,000 00 59,000 00

Tide, 5,350 00 5,350 00

Empire, 6,500 00 6,500 00

Signal, 1,250 00 1,250 00

L. M. Cross, 1,808 40 2,796 30 4,604 70

Arizona Samp, 35,512 50 35,512 50 71,025 00

Sundries per express, 49,565 53 4,425 00 53,990 53

Other sources, 9,000 00 61,125 00 70,125 00

C. O. D., 61,300 00 61,300 00

Totals, 410,727 33 \$68,354 24 \$644,681 77

After entering at great length into the geological formation of the Territory, the report closes with the following excellent description of the celebrated Vulture mine.

The Vulture lode was discovered by Henry Wickenburg, a German, who with a few companions prospected in this neighborhood in the fall of 1882. It is located fourteen miles southwest of Wickenburg and of Vulture City, the place where the company's reduction works have been located. The country for a great distance in all directions around the mine is underlain by quartzites which all evidently are composed of the same material. They are mostly very highly colored by oxides of iron, dense, hard and exhibiting little traces of saturation in most locations, while at others it is quite plain, the rocks running northeast and southwest. The

immediate zone, however, in which the Vulture lode lies is one of talc slate which is 400 yards wide. True body, or bodies of gold quartz lie almost in about the middle of this belt, and strike and dip parallel to the stratification of the slate which runs a little south of west and dips northwest 45 degrees. In the lowest levels, however, the veins show a tendency to assume a steeper dip.

The croppings of this remarkable lode rise eighty feet above the level of the mesa, at their foot, and form quite a hill of themselves. The hill on which they occur is 450 feet long on the line of the strike of the vein, and 250 feet across its base. Eighty-five feet in width of this is vein matter, which lies between well defined walls showing clay selvages in places. These become more distinct in depth when at the lowest levels, a seam of grayish black clay, ten inches thick, overlies the vein. The croppings at the surface show gold everywhere, but there are here four distinct quartz layers which are richer than the remainder and the ore from which is transported from the company's mill, while the rest, which does not bear the high cost of transportation, is laid aside and piled back at the mine for future use. The Vulture company owns 500 feet in the original location.

## LOCAL BRIEFS.

The militia boys were drilling last night.

Prescott is working hard for the north and south railroad.

All the streets should be sprinkled this summer, even though it became necessary to do it by private subscription.

Prof. Norris' Equine Paradox, which exhibits at the Patton Opera House tonight, will arrive in the city this afternoon.

A uniform system of sidewalks could be established by municipal ordinance, to the great improvement of the city and the greater convenience of the citizens.

What is the matter with improving the street lights of Phoenix? It is almost as much as one's life is worth to be compelled to traverse a side street under present conditions.

John Bergher has put up a one stamp quartz mill of his own manufacture in the corner of Adams and Cortez streets, and he was running it yesterday. It proved a success in every way.

The widow of Dr. Osborne, who committed suicide on Monday night, is left in destitute circumstances, with three small children, the statement that Osborne's life was insured having been a mistake. Mrs. Osborne has not asked help, but here is an excellent opportunity for the good people of Phoenix to volunteer assistance.

Judge Kibby, yesterday, in passing upon the demurrers and pleas in abatement in the damage cases against the Walnut Grove Water Storage Company, gave plaintiffs unconditional leave to amend in all save the Fousley case, wherein they could amend upon payment of costs. The point raised by the demurrer was that the court had no jurisdiction—a point never yet passed on in this connection by an Arizona court.

## PERSONAL.

Perry Williams, the Maricopa hotel man is in the city.

Alfred J. Goldschmidt, of Tucson, is a guest at the Commercial.

E. E. Davis, U. S. A., of Fort Wingate, is registered at the Lemon.

B. J. Hawley and Prof. Hitchcock, of Florence, are recent arrivals in Phoenix.

A new stanza has been added to "Ostler Joe," running: "Full five years Joe mourned his Annie, and his life was dark and drear; Then his heart again grew light, and his voice was full with cheer; He had found another Annie, and the two had grown quite spooney; Hans and published for his nuptials now with little Annie Rooney."

## HOTEL ARRIVALS.

## COMMERCIAL HOTEL.

F. Dabellower, Tempe. W. L. George, Jr., Tempe. T. F. Kelly, Tempe. A. J. Goldschmidt, Tucson. S. Smith, Los Angeles. W. G. Kile, Chicago. B. S. Church, New York. F. J. Green, Peoria, Ill. H. S. Neustater, N. Y. Wm. Hibbard, Tucson.

## HOTEL LEMON.

E. Hill, Arizona. E. E. Davis, Ft. Wingate.

## GUIDE AND POINTER.

## UNITED STATES MAIL.

Arrival and departure of the United States Mail at Phoenix, Arizona.

From the East and the West, via the Maricopa and Phoenix Railroad—Arrives daily at 2 P. M.; closes 7 P. M.

Prescott, via Vulture, Wickenburg, etc.—Arrives at 6 P. M., Wednesday, Friday and Sunday; closes at 8:30 A. M., Monday, Wednesday and Friday.

McDowell—Arrives at 3 P. M. daily, except Sunday; closes at 8 A. M. daily, except Sunday.

Buckeye—Arrives at 9 P. M. Monday; closes at 9 A. M. Wednesday.

## WELLS FARGO &amp; CO.

Rates on early fruits, melons, and vegetables, per 100 pounds from Phoenix.

San Francisco, \$3.50; Clifton, \$3.75.

Sacramento, 3.50; Separ, N. M., 3.00.

Stockton, S. M., 3.50; Gage, S. M., 3.00.

Oakland, 3.50; Deming, 3.00.

San Jose, 3.50; Albuquerque, 4.50.

Frederick, 3.50; Flagstaff, 2 in 3.

Los Angeles, 3.50; Gila Bend, 1.25.

San Diego, 4.00; Yuma, 3.00.

Maricopa, 50; Orelia, Ital, 6.25.

Casa Grande, 1.00; Leadville, Colo., 7.25.

Florence, 4.00; Denver, 6.00.

Red Rock, 1.50; Pueblo, 6.00.

Tucson, 1.75; Kansas City, 6.75.

Panama, 2.25; St. Louis, Mo., 7.50.

Benson, 2.50; El Paso, Texas, 5.00.

Fairbank, 3.00; Eagle Pass, Tex., 5.25.

Tonstont, 4.00; San Antonio, 5.50.

Huachuca, 3.00; Galveston, 6.50.

Crittenden, 3.25; Houston, 6.00.

Wilecox, 3.25; Dallas, 5.75.

Nogales, 3.25; Austin, 6.00.

Bowie, 3.00; Laredo, 6.40.

San Simon, 3.00; Chicago, 7.50.

Stein's Pass, 3.00; Cincinnati, 9.00.

Lordsburg, 3.00; Buffalo, N. Y., 9.00.

Silver City, 3.00; New York City, 9.00.

Duncan, A. T., 3.50; Boston, 10.00.

## C. W. GREENLEAF, Agent.

**ARRIVED IN PHOENIX.**

**The Famous Vitaphone Physician, Dr. J. D. MacLennan Of**

**San Francisco, Cal., Whose Marvelous Cures Have Won for Him a World-wide Reputation.**

Now located for a limited time only, in the Monihan building, rooms 1 and 2, where he offers

**FREE CONSULTATION** and free treatment to the poor, while the rich are expected to pay a moderate fee.

Anyone who doubts his ability the following cases, selected from thousands of others on file at his office, ought to satisfy them to the contrary. One thousand dollars will be given for any of them not genuine!

Ex. Gov. A. F. Safford, of Arizona, cured of nervous prostration in three weeks recommended by Dr. MacLennan very highly.

Attorney-General Marshall's reply to Hon. T. J. Jones.

## OFFICE OF THE ATTORNEY-GENERAL OF THE STATE OF CALIFORNIA.

SAN FRANCISCO, March 18, 1884.

Hon. T. J. Jones—My dear Sir: I have just received your letter of the 15th. Doctor MacLennan was of great and singular service to me. I certainly would try him if I were in your place. He has worked some wonderful changes within my knowledge. Respectfully,

E. C. MARSHALL.

Now read what Doctor A. S. Hughes, a medical practitioner of forty years, whom Dr. MacLennan cured, has to say:

**TESTIMONY OF DOCTOR HUGHES.**

The undersigned, a resident of the town of Slaughter, King County, W. T., has been afflicted for over two years with a disease termed by some physicians episthemia, by others, the douloureux, from which I have suffered at times the most excruciating pains, only relieved by hot fomentation. The disease and pain started in my upper jaw on the right side, under the right ear the nose extending up through the bones of the face, and finally to the right side of the head affecting my eyes.

My own skill, being a practicing physician for over forty years, and counsel from several others of good repute, failed to give me any relief. I applied to Dr. MacLennan and received seven treatments from him and in truth must say that I was cured of all my troubles. I feel well, eat without pain and enjoy a peaceful and pleasant state of mind.

A. S. HUGHES, M. D.

Dr. A. Boyce, of Toledo, Wash., testifies: "This is to certify that I was quite deaf. I called on Dr. MacLennan and in three applications he cured me. I recommend the doctor, as I believe he is doing much good."

Dr. V. Boyce, of Toledo, W. T., Prof. A. Gonzales, of San Francisco, given up by his physicians to die of sapped vitality and paralysis, was carried perfectly helpless to MacLennan and cured, now says:

"In less than one month I was enabled to resume my occupation as professor of music and violinist at the Tivoli opera house, and ever since, for over eight years, have continued in good health without the slightest return of my weakness or disease."

Dr. Henry Slade says: "My case was considered incurable by the best physicians, but Dr. MacLennan restored me the use of my limbs in less than twenty minutes, being paralyzed for over four months."

Rev. John Stipp, Sec. Linn Co., Oregon, writes: "By the recommendation of my son-in-law, J. C. L. Miller, whom you treat successfully for rheumatism, and his wife also for a diseased shoulder and nervousness, I submit my case to you."

**SAN JOSE REFERENCES.**

J. W. Thomas, 312 South First street, who was a great sufferer, going about on crutches, threw them away after receiving his third treatment from Dr. MacLennan.

Michael Minahan, residing at 29 Julia street, totally deaf in his left ear, together with constant roaring and ringing in his head, was cured the other day after a few treatments from Dr. MacLennan.

Dr. MacLennan treats successfully all broken-down constitutions, nervous and general debility, weak spines, prolapses and all kinds of male and female weaknesses, of a private nature or otherwise, brought on either by over-excess, diseased liver, kidneys, stomach, heart, lungs, throat, head, eyes and ears, internal ailments, loss of voice, weakness of the limbs, weak back, weak eyes, dyspepsia, rheumatism, asthma, bronchitis, catarrh, deafness, diabetes, epilepsy, consumption, peralysed, natured tumors, cancers and many other chronic and painful diseases too numerous to be mentioned.

Consultation free. Dr. MacLennan, Mouth building, corner Washington and Cortez streets.

**REDONDO HOTEL**

Redondo Beach, Cal.

This new and magnificent hotel was opened to the public May 1st. It is the most thoroughly equipped and best furnished house on the Pacific Coast. Two hundred and seventy-five rooms, replete with every convenience; fire place, hot and cold water, incandescent lights, electric call and return system. Standing in the center of a twenty-two-acre tract, under high cultivation, two hundred feet back from the ocean bluff. Are lights on the grounds. Finest surf bathing in America. The house has a fine out elevator and by far the handsomest music and dancing hall in California. The dining room is a perfect gem of artistic perfection, superbly furnished and so arranged that every seat commands a view of the ocean. There is a gallery at one end, where a fine band plays for the evening dances; also playing on the veranda in the morning, in the music and dancing room at night. Morning Germans will be a feature of the house. The cuisine will also be a prominent factor. The house and surroundings are simply perfect—new, sweet and clean—and must be seen to be appreciated. The Atchison, Topeka and Santa Fe runs six trains daily from Los Angeles. The company own their own railroad, running to Los Angeles, connecting with the Grand Avenue cable system, running twelve finely equipped trains daily each way, landing passengers right back of the hotel. There is a pier, where boats from San Francisco, San Diego and other points make regular landings. Steam and sailing yachts can be had. The fishing is the finest on the coast. There is a bluff and interior drive, commanding a fine view of the ocean, San Gabriel valley, Wilson's Peak, Old Baldy, Sierra Madre range of mountains. Terms same as other first-class houses. Special rates for permanent and families. All letters address to the manager.

E. W. ROOT, Manager.

**SPEED PROGRAMME**

OF THE

Arizona Industrial Exposition

ASSOCIATION.

For the Fair to be Held at Phoenix,

Arizona, October 14, 15, 16

and 17, 1890.

**TUESDAY, OCT. 14.**

1.—Running Stake. 2-year-olds, bred, raised and owned in Arizona; ½ mile dash.

Entrance, \$40; added money, \$50.

2.—Trotting. Stallion stake; mile heats, 3 in 5. Entrance, \$25; added money, \$75.